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- Basic understanding of catalysts used in environmental pollution abatement, especially as applied to industrial processes
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- New catalytic routes and processes for the production of clean energy, such as in hydrogen generation via catalytic fuel processing; and new catalysts and electrocatalysts for fuel cells
- Catalytic reactions in which wastes are converted to useful products
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- Scientific aspects of photocatalytic processes and basic understanding of photocatalysts as applied to environmental problems
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